WHAT IS CLAIMED IS:

1. A flow rate measuring device comprising: a sub-passage installed in a main passage through which a fluid flows; and

a detection element installed in the subpassage and capable of measuring a flow rate of a gas flowing in a forward direction and a flow rate of a gas flowing in a backward direction;

wherein the sub-passage has an outlet opening in a radial direction of the main passage and a bent portion at least upstream of the detection element;

wherein a means is provided near the outlet of the sub-passage to introduce the backward flow of the main passage into the sub-passage through the outlet.

- 2. A flow rate measuring device according to claim 1, wherein the introduction means introduces the backward flow into the sub-passage through the outlet by a dynamic pressure generated by the backward flow.
- 3. A flow rate measuring device according to claim 1, wherein the sub-passage has the bent portion between the outlet and the detection element.
- 4. A flow rate measuring device according to claim 2, wherein the introducing means is a stepped portion whose side surface downstream of the outlet in the backward direction is set higher than its side surface upstream of the outlet in the backward direction.

- 5. A flow rate measuring device according to claim 4, wherein the introducing means is constructed to facilitate the introduction of the backward flow more than the forward flow.
- 6. A flow rate measuring device according to claim 5, wherein the introducing means blocks the forward flow from entering into the sub-passage through the outlet.
- 7. A flow rate measuring device according to claim 6, wherein the sub-passage is constructed of at least two members and the introducing means is formed on only one of the two members.
- 8. A flow rate measuring device according to claim 6, wherein the introducing means is formed in the main passage.
- 9. A flow rate measuring device according to claim 8, wherein a length of a part of the sub-passage from an inlet of the sub-passage to the detection element is almost equal to a length of another part of the sub-passage from the detection element to the outlet of the sub-passage.
- 10. A flow rate measuring device according to claim 9, wherein the outlet is formed at two locations, the detection element is formed on one surface of a substrate, and the introducing means is provided only near the outlet that is formed on the same side as the one surface of the substrate.
- 11. An internal combustion engine control system

comprising:

an internal combustion engine;

- a flow rate measuring device claimed in any one of claims 1-9 and installed in an intake manifold of the internal combustion engine;
- a fuel supply device to supply fuel to the internal combustion engine; and
- a controller to control the fuel supply device based on a signal from the flow rate measuring device.